

IN THE CLAIMS:

Please **AMEND** claims 38, 42, 48, 49, 52, 59, 95, 99, 101, 104, 105, 117, 127, 134, 136, and 142, and **CANCEL** claims 40, 41, 45-47, 60-62, 93, 97, 98, 102, 103, 113-116, 119, 120, 124-126, 137-141, and 143-148 without prejudice or disclaimer, as follows:

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~~DT~~ 1-37. (PREVIOUSLY CANCELLED)

38. (CURRENTLY AMENDED) A recording and/or reproducing method comprising:
arranging and recording real time files requiring real time recording/reproduction
according to real time recording/reproduction in a recording medium according to real time
recording/reproduction information for ensuring real time reproduction, and recording the real
time recording/reproduction information in the recording medium; and
reading and reproducing the real time files using the real time recording/reproduction
information,

wherein the real time recording/reproduction information is stored in a file type field in an
information control block (ICB) TAG field of a file entry for a universal disk format (UDF) system.

39. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in
claim 38, wherein the recording of the real time recording/reproduction information comprises
storing the real time recording/reproduction information in a file control information area of the
recording medium.

40-41. (CANCELLED)

42. (CURRENTLY AMENDED) The recording and/or reproducing method as claimed in
claim 38, wherein the recording comprises storing the real time recording/reproduction
information associated with the real time files in a separate file from the real time files.

43. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in
claim 38, wherein the recording of the real time recording/reproduction information comprises
storing the real time recording/reproduction information in a volume structure area of the
recording medium.

44. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 38, wherein the real time recording/reproduction information includes file indication information indicating that the real time files require real time recording/reproduction.

45-47. (CANCELLED)

48. (CURRENTLY AMENDED) ~~The recording and/or reproducing method as claimed in claim 38~~ A recording and/or reproducing method comprising:

recording real time files according to real time recording/reproduction information for ensuring real time reproduction; and

reading the real time files using the real time recording/reproduction information,

wherein the real time recording /reproduction information includes at least one of minimum contiguous storage blocks satisfying a condition in which a playback time of a current data block is greater than a sum of the seek time and a read time of a data block to be played back next, and a playback time for ensuring minimum contiguous storage.

49. (CURRENTLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the recording step (a) comprises arranging the real time files in the minimum contiguous storage blocks.

50. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the recording of the real time recording/reproduction information comprises if an end portion of one of the real time files is not filled with data by one of the minimum contiguous storage blocks while the one real time file is recorded in units of the minimum contiguous storage blocks, recording as the real time recording/reproduction information an attribute indicating that a number of data blocks corresponding to a size of the unfilled portion are allocated but unrecorded.

51. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the minimum contiguous storage blocks are classified according to a size of an error correction code block and a maximum seek time.

52. (CURRENTLY AMENDED) The recording and/or reproducing method as claimed in claim 51, wherein the arranging-recording comprises arranging the real time files in the classified minimum contiguous storage blocks.

53. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the real time recording/reproduction information further includes current real time recordable/reproducible state information indicating whether a current file is arranged so as to be recorded/reproduced in real time.

54. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the real time recording/reproduction information further includes contiguous recording/reproduction type information classified by conditions for controlling real time files, the conditions including recording/reproduction bit rate information, file defect management information, file allocation information, file buffering information, and the information of the minimum contiguous storage blocks.

55. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 48, wherein the real time recording/reproduction information further includes at least one of file defect management information indicating that replacement of a defective block with a block in a spare area of the recording medium and rereading or rewriting of the defective block are not attempted when reading or writing has failed, file allocation information indicating that a data block is not allocated to the defective block replaced by the spare area, and file buffering information associated with an amount of data to be initially read from a buffer and an amount of data written from the buffer at a time.

56. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 38, wherein the reading and reproducing the real time files comprises:

reading a volume area on the recording medium; and
reproducing a file as one of the real time files in consideration of the real time recording/reproduction information if the real time recording/reproduction information exists in the volume area.

57. (PREVIOUSLY AMENDED) The recording and/or reproducing method as claimed in claim 56, wherein the reproducing of the file comprises analyzing recording/reproduction bit rate information, defect management information, file allocation information, and file buffering information according to the real time recording/reproduction information in the volume area, and reading and reproducing file data in minimum contiguous storage blocks of the file.

58. (CURRENTLY AMENDED) The recording and/or reproducing method as claimed in claim 38, wherein the reading and reproducing the real time files comprises :

determining whether the real time recording/reproduction information exists in a file area; and

reproducing a file in consideration of the real time recording/reproduction information if the real time recording/reproduction information exists in the file area.

59. (CURRENTLY AMENDED) ~~The recording and/or reproducing method as claimed in claim 58 A recording and/or reproducing method comprising:~~

recording real time files according to real time recording/reproduction information for ensuring real time reproduction; and

reading the real time files using the real time recording/reproduction information,
wherein:

the reading the real time files comprises:

determining whether the real time recording/reproduction information exists in a file area; and

reproducing a file in consideration of the real time recording/reproduction information if the real time recording/reproduction information exists in the file area, and

the reproducing of the file comprises analyzing recording/reproduction bit rate information, defect management information, file allocation information, and file buffering information according to the real time recording/reproduction information in the file area, and reading and reproducing file data in minimum contiguous storage blocks.

60-62. (CANCELLED)

63-92. (PREVIOUSLY CANCELLED)

93. (CANCELLED)

94. (PREVIOUSLY CANCELLED)

95. (CURRENTLY AMENDED) A recording method comprising the steps of:
~~arranging and recording real time files requiring real time recording/reproduction according to real time recording/reproduction in a recording medium according to real time recording/reproduction information for ensuring real time reproduction; and recording the real time recording/reproduction information in the a recording medium, wherein the real time recording/reproduction information is stored in a file type field in an information control block (ICB) TAG field of a file entry for a universal disk format (UDF) system.~~

96. (PREVIOUSLY ADDED) The recording method as claimed in claim 95, wherein the recording of the real time recording/reproduction information comprises storing the real time recording/reproduction information in a file control information area of the recording medium.

97-98. (CANCELLED)

99. (CURRENTLY AMENDED) The recording method as claimed in claim 95, wherein the recording of the real time recording/reproduction information comprises storing the real time recording/reproduction information associated with the real time files in a separate file from the real time files.

100. (PREVIOUSLY ADDED) The recording method as claimed in claim 95, wherein the recording of the real time recording/reproduction information comprises storing the real time recording/reproduction information in a volume structure area of the recording medium.

101. (CURRENTLY AMENDED) The recording method as claimed in claim 95, wherein the real time recording/reproduction information includes file indication information indicating that the real time files require real time recording/reproduction.

102-103. (CANCELLED)

104. (CURRENTLY AMENDED) The recording method as claimed in claim 95
~~The recording method as claimed in claim 103, wherein:~~

the real time files have sections with different bit rates, and the real time recording/reproduction information includes recording/reproduction bit rate information which includes information associated with the sections and a plurality of bit rate values corresponding to the different bit rates of the sections,

the recording of the real time recording/reproduction information comprises automatically arranging file data areas of the real time files according to the recording/reproduction bit rate information, and

the real time recording/reproduction information includes a maximum allowable value of the real time recording/reproduction bit rates.

105. (CURRENTLY AMENDED) ~~The recording method as claimed in claim 95-A~~
recording method comprising:

recording real time files for ensuring real time reproduction; and

recording the real time recording/reproduction information in the recording medium,

wherein the real time recording/reproduction information includes at least one of minimum contiguous storage blocks satisfying a condition in which a playback time of a current data block is greater than a sum of the seek time and a read time of a data block to be played back next, and a playback time for ensuring minimum contiguous storage.

106. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, wherein the recording of the real time recording/reproduction information comprises arranging the real time files in the minimum contiguous storage blocks.

107. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, wherein the recording of the real time recording/reproduction information comprises, if an end portion of one of the real time files is not filled with data by one of the minimum contiguous storage blocks while the one real time file is recorded in units of the minimum contiguous storage blocks, recording as the real time recording/reproduction information an attribute indicating that a number of data blocks corresponding to a size of the unfilled portion are allocated but unrecorded.

108. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, further comprising classifying the minimum contiguous storage blocks according to a size of an error correction code block and a maximum seek time.

109. (PREVIOUSLY ADDED) The recording method as claimed in claim 108, wherein the arranging and recording of the real time files comprises arranging the real time files in the classified minimum contiguous storage blocks.

110. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, wherein the real time recording/reproduction information further includes current real time recordable/reproducible state information indicating whether a current file is arranged so as to be recorded/reproduced in real time.

111. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, wherein the real time recording/reproduction information further includes contiguous recording/reproduction type information classified by conditions for controlling real time files, the conditions including recording/reproduction bit rate information, file defect management information, file allocation information, file buffering information, and the information of the minimum contiguous storage blocks.

112. (PREVIOUSLY ADDED) The recording method as claimed in claim 105, wherein the real time recording/reproduction information further includes at least one of file defect management information indicating that replacement of a defective block with a block in a spare area of the recording medium and rereading or rewriting of the defective block are not attempted when reading or writing has failed, file allocation information indicating that a data block is not allocated to the defective block replaced by the spare area, and file buffering information associated with an amount of data to be initially read from a buffer and an amount of data written from the buffer at a time.

113-116. (CANCELLED)

117. (CURRENTLY AMENDED) A reproducing method of a recording medium having, wherein ~~real time files requiring real time recording/reproduction according to real time recording/reproduction are stored in a recording medium according to real time recording/reproduction information for ensuring real time reproduction, and the real time recording/reproduction information is stored in the recording medium~~, the method comprising: reading the real time files using the real time recording/reproduction information; and

reproducing the read real time files,
wherein the real time recording/reproduction information is stored in a file type field in an information control block (ICB) TAG field of a file entry for a universal disk format (UDF) system.

118. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 117, wherein the reading of the real time files comprises reading the real time recording/reproduction information from a file control information area of the recording medium.

119-120. (CANCELLED)

121. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 117, wherein the reading of the real time files comprises reading the real time recording/reproduction information associated with the real time files in a separate file from the real time files.

122. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 117, wherein the reading of the real time files comprises reading the real time recording/reproduction information in a volume structure area of the recording medium.

123. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 117, wherein the real time recording/reproduction information includes file indication information indicating that the real time files require real time recording/reproduction.

124-126. (CANCELLED)

127. (CURRENTLY AMENDED) The reproducing method as claimed in claim 117 A reproducing method of a recording medium, wherein real time files requiring real time recording/reproduction according to real time recording/reproduction are stored in a recording medium according to real time recording/reproduction information for ensuring real time reproduction, and the real time recording/reproduction information is stored in the recording medium, the method comprising:

reading the real time files using real time recording/reproduction information; and
reproducing the read real time files,

wherein the real time recording/reproduction information includes at least one of minimum contiguous storage blocks satisfying a condition in which a playback time of a current data block is greater than a sum of the seek time and a read time of a data block to be played back next, and a playback time for ensuring minimum contiguous storage.

128. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein the real time files are arranged in the minimum contiguous storage blocks.

129. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein if an end portion of one of the real time files is not filled with data by one of the minimum contiguous storage blocks while the one real time file is recorded in units of the minimum contiguous storage blocks, the real time recording/reproduction information is recorded as an attribute indicating that a number of data blocks corresponding to a size of the unfilled portion are allocated but unrecorded.

130. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein the minimum contiguous storage blocks are classified according to a size of an error correction code block and a maximum seek time.

131. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein the real time recording/reproduction information further includes current real time recordable/reproducible state information indicating whether a current file is arranged so as to be recorded/reproduced in real time.

132. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein the real time recording/reproduction information further includes contiguous recording/reproduction type information classified by conditions for controlling real time files, the conditions including recording/reproduction bit rate information, file defect management information, file allocation information, file buffering information, and the information of the minimum contiguous storage blocks.

133. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 127, wherein the real time recording/reproduction information further includes at least one of file defect management information indicating that replacement of a defective block with a block in a spare area of the recording medium and rereading or rewriting of the defective block are not attempted when reading or writing has failed, file allocation information indicating that a data block is not allocated to the defective block replaced by the spare area, and file buffering information associated with an amount of data to be initially read from a buffer and an amount of data written from the buffer at a time.

134. (CURRENTLY AMENDED) The reproducing method as claimed in claim 117, wherein the reading of the real time files comprises the steps of:

reading a volume area on the recording medium; and
reproducing a file as one of the real time files in consideration of the real time recording/reproduction information if the real time recording/reproduction information exists in the volume area.

135. (PREVIOUSLY ADDED) The reproducing method as claimed in claim 134, wherein the reproducing of the file comprises analyzing recording/reproduction bit rate information, defect management information, file allocation information, and file buffering information according to the real time recording/reproduction information in the volume area, and reading and reproducing file data in minimum contiguous storage blocks of the file.

136. (CURRENTLY AMENDED) The reproducing method as claimed in claim 117, wherein the reproducing of the file comprises the steps of:

determining whether the real time recording/reproduction information exists in a file area; and
reproducing a file in consideration of the real time recording/reproduction information if the real time recording/reproduction information exists in the file area.

137-141. (CANCELLED)

142. (CURRENTLY AMENDED) A recording and/or reproducing method comprising the steps of:

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recording real time files requiring real time recording and/or reproduction on a recording medium according to real time recording and/or reproduction information for ensuring real time reproduction; and

recording the real time recording and/or reproduction information in a file type field in an (ICB) TAG field of a file entry for a universal disk format (UDF) system.

143-148. (CANCELLED)
